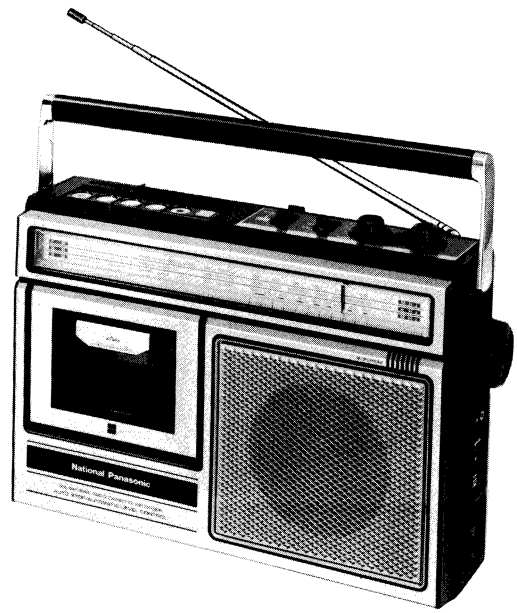
ORDER NO. RD7907-1720C

Service Manual

Radio Cassette

FM/MW/SW 3-Band
Radio Cassette Recorder

RX-1450W



RQ-544 MECHANISM SERIES

Specifications

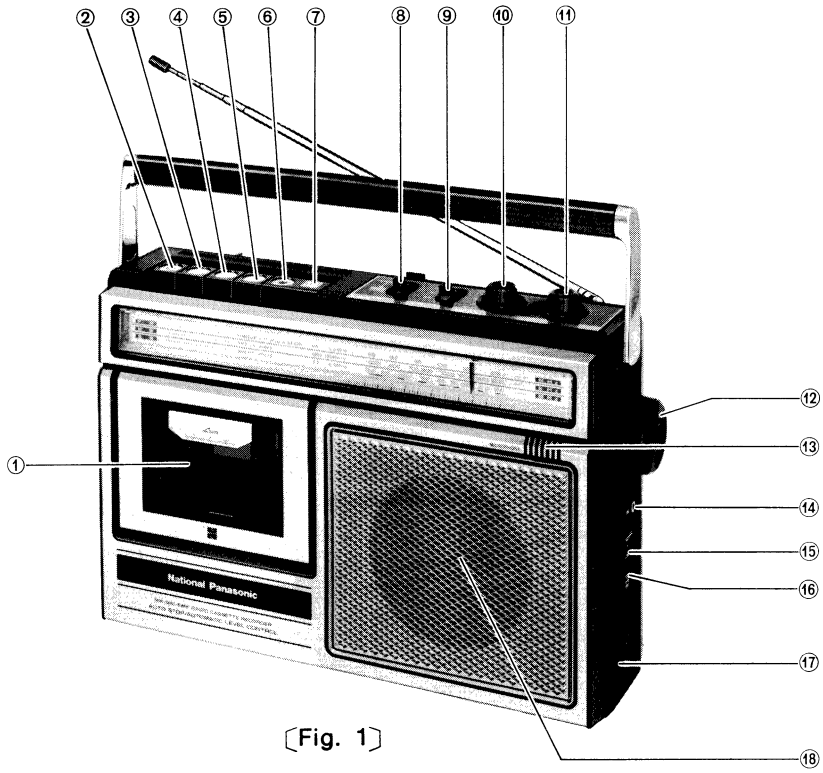
Power Requirement:	AC; 100~110/115~127/200~220/230~250 V 50/60 Hz Power consumption; 7W Battery; 6 V (four UM-1, R20 size dry batteries)
Power Output:	2.0 W.....RMS (max)
Frequency Range:	80~8,000 Hz
Recording System:	DC bias, MAGNET erase
Tape Speed:	4.8 cm/s, ($1\frac{7}{8}$ ips)
Program time:	1 hour with C-60 cassette tape
Track System:	2-track 1-channel monaural recording and playback
Input:	MIC; sensitivity 0.25 mV/ applicable microphone impedance 200~600Ω (recommened microphone WM-2201N)
Output:	EXT SP; 8Ω
Speaker:	10 cm (4") PM Dynamic speaker (8Ω)
Radio Frequency Range:	FM; 88~108 MHz MW; 525~1605 kHz (571~187 m) SW; 3.2~12 MHz (93.8~25 m)
Intermediate Frequency:	FM; 10.7 MHz AM (MW/SW); 455 kHz
Sensitivity;	FM; 1.7μV/50 mW output MW; 55μV/m/50 mW output SW; 55μV/m/50 mW output
Dimensions:	32.1 cm (W) x 21.5 cm (H) x 11.1 cm (D) [$12\frac{5}{8}$"(W) x $8\frac{1}{2}$"(H) x $4\frac{3}{8}$"(D)]
Weight:	2.4 kg (5lbs. 5 oz) without batteries

Specifications are subject to change without notice.

National Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka, Japan

LOCATION OF CONTROLS AND COMPONENTS

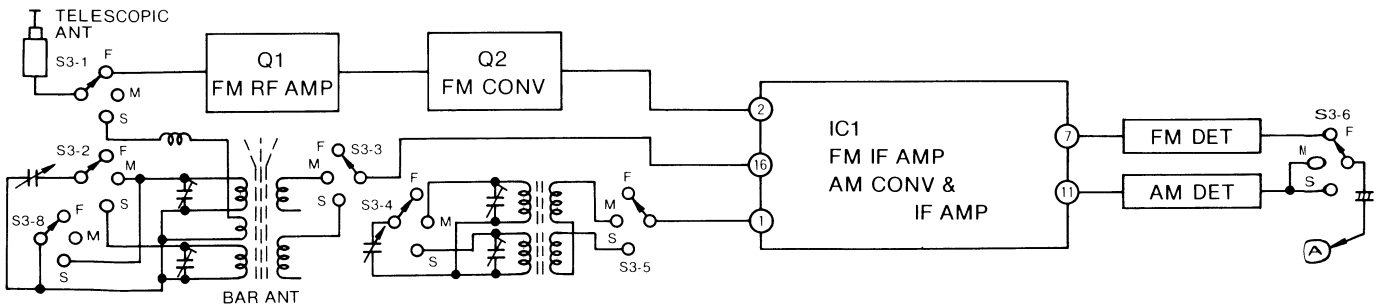


〔Fig. 1〕

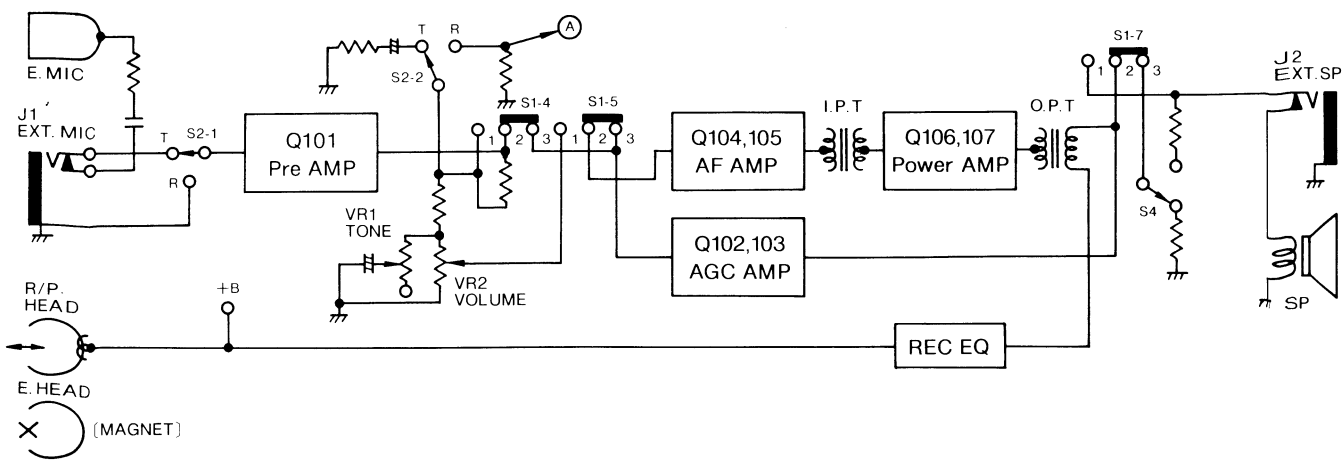
① Cassette holder
② Ejection button
③ Stop button
④ Fast forward/cue button
⑤ Rewind/review button
⑥ Playback button
⑦ Record button
⑧ Tape/radio selector
⑨ Band Selector
⑩ Tone control
⑪ Volume control
⑫ Tuning control
⑬ Built-in microphone
⑭ Microphone jack
⑮ Monitor switch
⑯ External speaker jack (8Ω)
⑰ AC power connection socket
⑱ Speaker (8Ω, 10 cm)

BLOCK DIAGRAM OF ELECTRICAL CIRCUIT

RADIO TUNER SECTION



RECORDING CIRCUIT



DISASSEMBLY INSTRUCTIONS

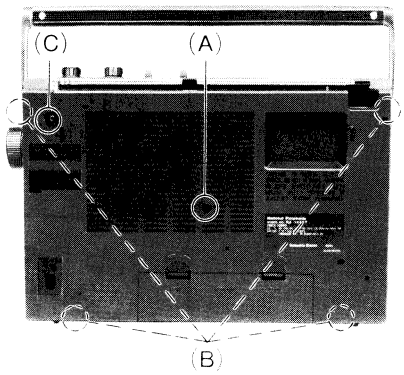


Fig. 2

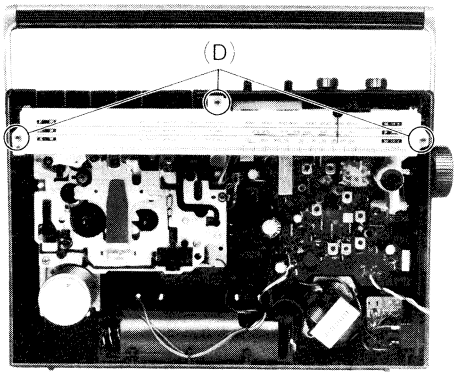


Fig. 3

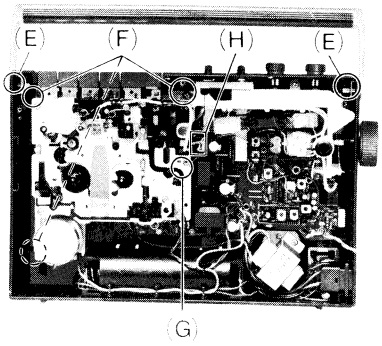


Fig. 4

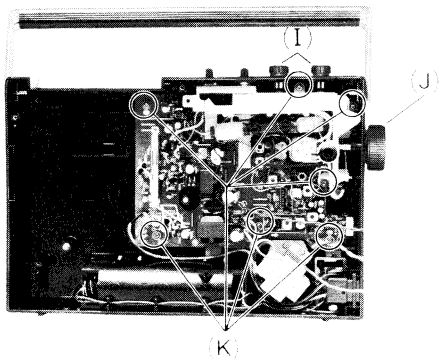


Fig. 5

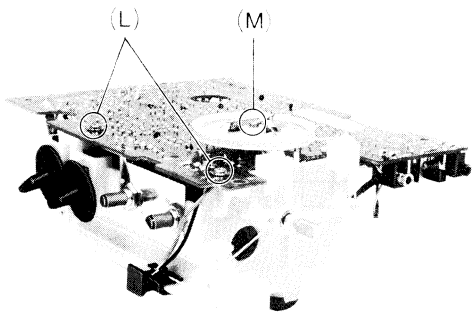


Fig. 6

Procedure	To remove—.	Remove—.	Shown in fig—.
1	Front panel	Screw 3 × 50 (A) × 1, Screw 3 × 8 (B) × 4	2
	Telescopic antenna	Screw 3 × 15 (C) × 1	2
2	Dial scale	Screw 3 × 10 (D) × 3	3
	Handle	Handle holding spring (E) × 2	4
3	Mechanism	Screw 3 × 12 (F) × 3, Screw 3 × 10 (G) × 1 Head connector (H) × 1	4
4	Main circuit board	Volume knob (I) × 2, Tuning knob (J) × 1 Screw 3 × 12 (K) × 7	5
5	Dial shassis	Screw 3 × 10 (L) × 2, Screw 3 × 8 (M) × 1	6

DIAL THREADING

■ Dial cord lengh : 100cm

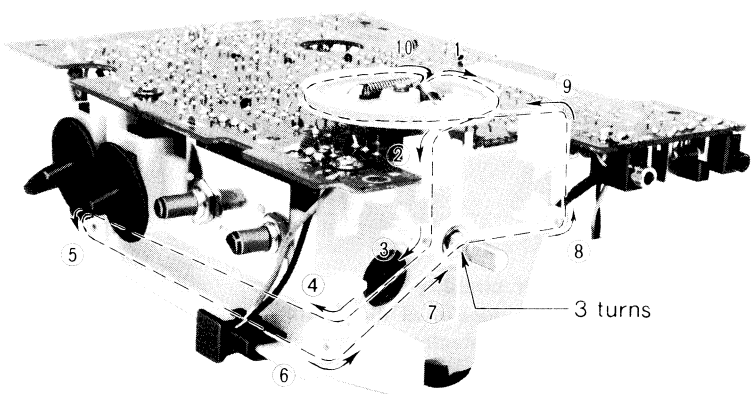
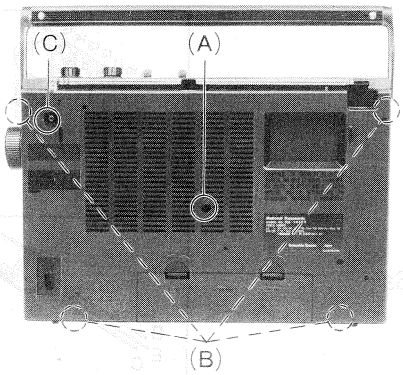
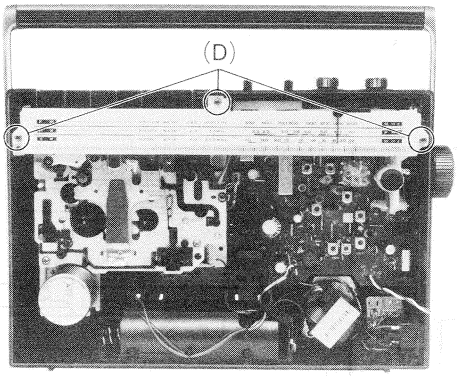


Fig. 7

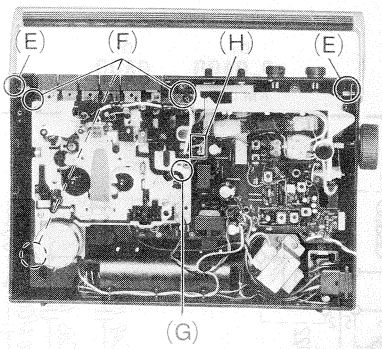
DISASSEMBLY INSTRUCTIONS



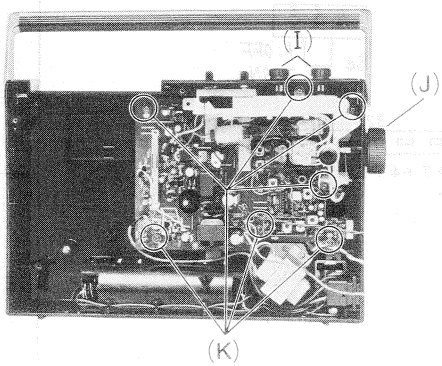
〔Fig. 2〕



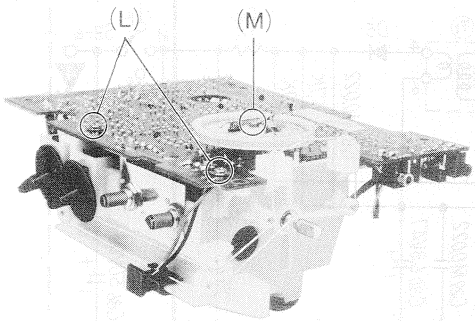
〔Fig. 3〕



〔Fig. 4〕



〔Fig. 5〕

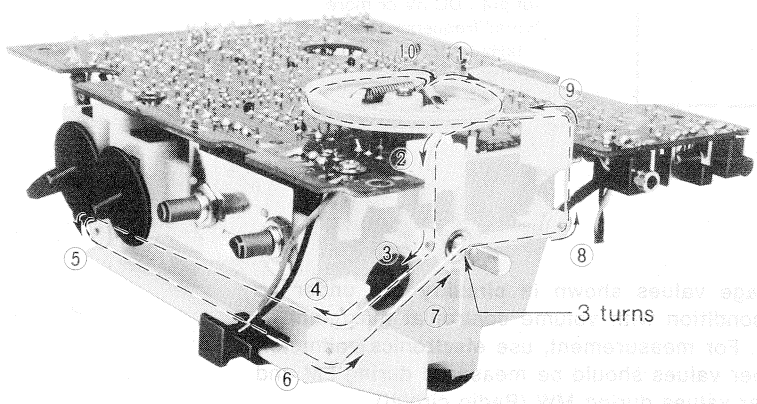


〔Fig. 6〕

Procedure	To remove—.	Remove—.	Shown in fig—.
1	Front panel	Screw 3×50 (A)×1, Screw 3×8 (B)×4	2
	Telescopic antenna	Screw 3×15 (C)×1	2
2	Dial scale	Screw 3×10 (D)×3	3
	Handle	Handle holding spring (E)×2	4
3	Mechanism	Screw 3×12 (F)×3, Screw 3×10 (G)×1 Head connector (H)×1	4
4	Main circuit board	Volume knob (I)×2, Tuning knob (J)×1 Screw 3×12 (K)×7	5
5	Dial shassis	Screw 3×10 (L)×2, Screw 3×8 (M)×1	6

DIAL THREADING

■ Dial cord lengh : 100cm



〔Fig. 7〕

ALIGNMENTS

■ ALIGNMENT INSTRUCTION

READ CAFEFULLY BERORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set tone control to maximum.
3. Set band switch to MW, SW or FM.
4. Set tape/radio selector to radio.
5. Set power source voltage to 6 V DC.
6. Output of signal generator should be no higher than necessary to obtain an output reading.

■ MW AND SW ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
		CONNECTIONS	FREQUENCY				
		AM IF ALIGNMENT					
(1)	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non-interference.	Output meter across voice coil.	T_2(AM 1st IST) T_3(AM 2nd IFT)	Adjust for maximum output.
		MW-RF ALIGNMENT					
(2)	MW	〃	550 kHz	550 kHz [8.33 mm ($\frac{5}{16}$")]	Output meter across voice coil.	L_7(MW OSC Coil) (＊1)L_6 (MW ANT Coil)	Adjust for maximum output Adjust L_6 by moving coil bobbin along ferrite core.
(3)	MW	〃	1500 kHz	1500 kHz [69.78 mm (2-$\frac{3}{4}$")]	〃	CT_6 (MW OSC Trimmer) CT_5 (MW ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
	(＊1) Cement antenna bobbin with wax after completing alignment.						
		SW-RF ALIGNMENT					
(4)	SW	〃	3.2 MHz	3.2 MHz [2.2 mm ($\frac{3}{32}$")]	Output meter across voice coil.	L_8 (SW OSC Coil) (＊2)L_6(SW ANT Coil)	Adjust for maximum output. Adjust L_6 by moving coil bobbin along ferrite core.
(5)	SW	〃	12 MHz	12 MHz [75.2 mm (2-$\frac{31}{32}$")]	〃	CT_4 (SW OSC Trimmer) CT_3 (SW ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).
	(＊2) Cement antenna bobbin with wax after completing alignment.						

■ FM IF & DETECTOR ALIGNMENT

EQUIPMENT REQUIRED

Signal generator that provides 10.7 MHz marker. Sweep generator that provides 10.7 MHz with 400 kHz sweep width.

OSCILLOSCOPE

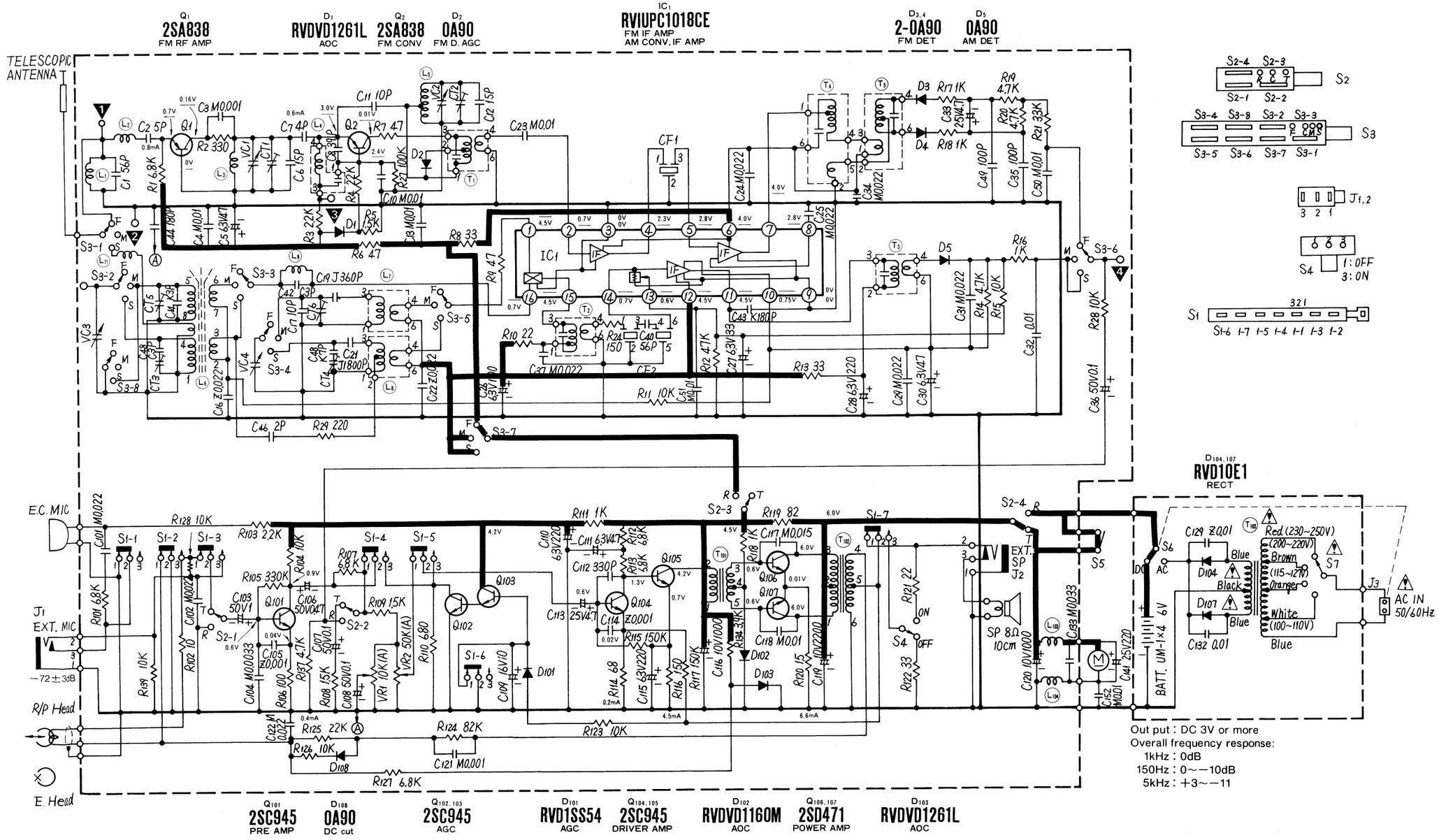
Set sweep selector of oscilloscope to "EXTERNAL SWEEP".

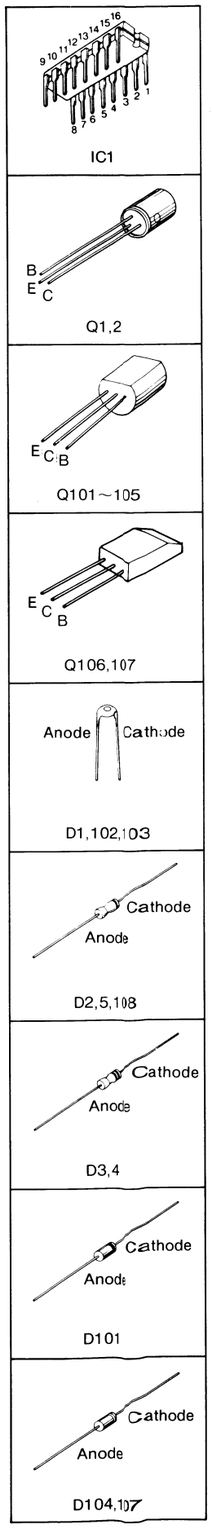
Apply 60 Hz sweep signal from sweep generator to horizontal input terminals of oscilloscope.

1. Set band switch to FM.
2. Set volume control to maximum.
3. Set tone control to maximum.
4. Set tape/radio selector to radio.
5. Set power source voltage 6 V DC.

	SWEEP GENERATOR COUPLING	SIGNAL GENERATOR COUPLING	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
(1)	High side thru. 0.001μF to▼. Common to▼.	High side thru. 0.001μF to▼. Common to▼.	Point of non-interference (on/about 90 MHz)	Connect vert. amp. of scope to▼. Common to▼.	T_1 (FM 1st IF) T_4 (FM 2nd IF)	Adjust for maximum amplitude. (Refer to fig. 8.)
(2)	Same as above.	Same as above.	Same as above.	Same as above.	T_5 (FM 3rd IF) (Secondary)	Adjust for maximum amplitude. (Refer to fig. 9.)

SCHEMATIC DIAGRAM MODEL -RX-1450W

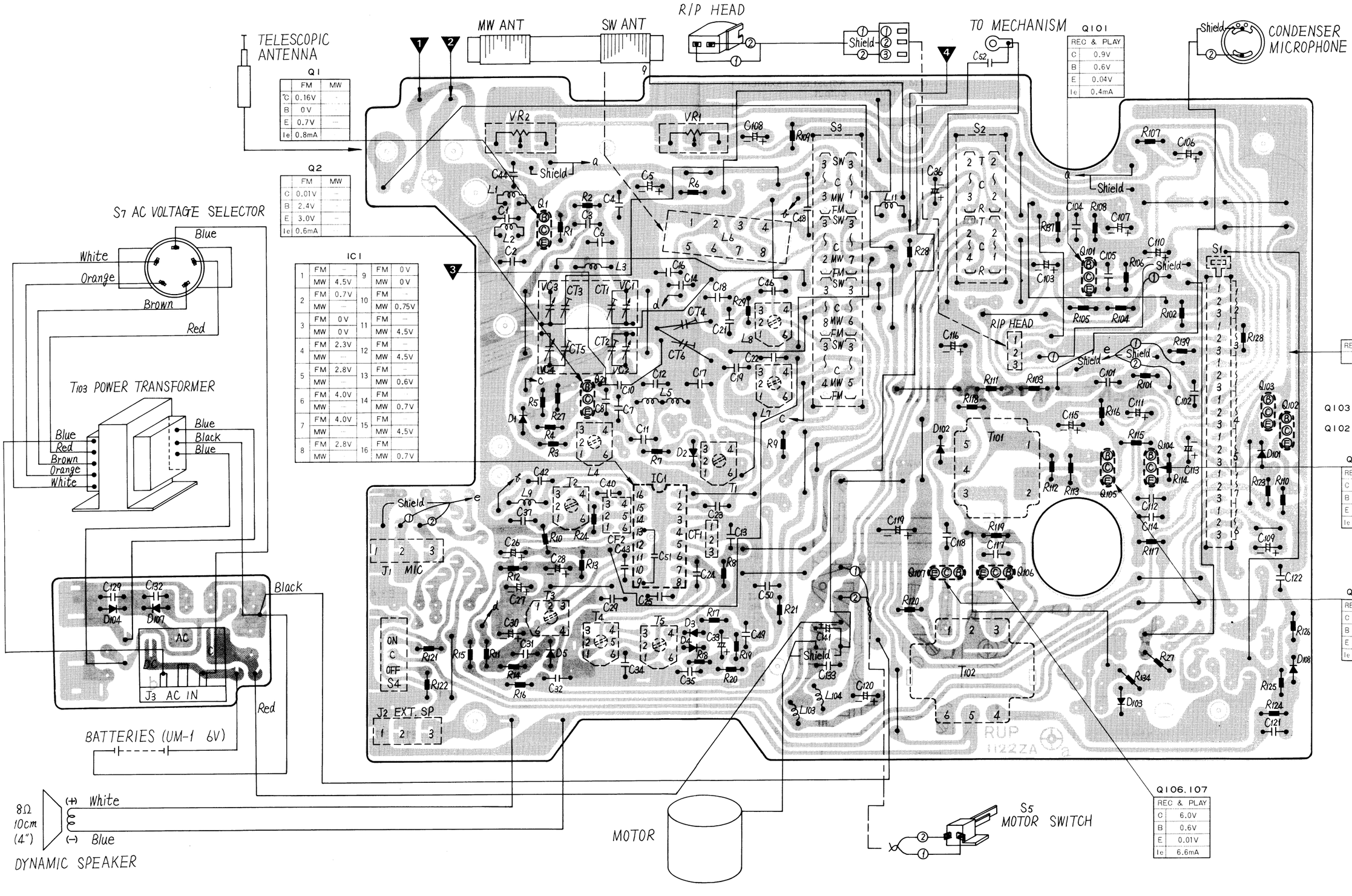




Notes:

1. S_{1-1}～S_{1-7} .....Record/playback switch (shown in playback position).
2. S_{2-1}～S_{2-4} .....Tape/radio selector (shown in tape position).
   T...tape, R...radio
3. S_{3-1}～S_{3-6} .....Band select switch (shown in FM position).
   F...FM, M...MW, S...SW
4. S_4 .....Monitor ON/OFF switch (shown in OFF position).
5. S_5 .....Motor ON/OFF switch (shown in OFF position).
6. S_6 .....AC/DC select switch (shown in DC position).
7. S_7 .....AC voltage select switch.
8. VR_1 .....Tone control.
9. VR_2 .....Volume control.
10. The mark(▼) shows test point. e.g. ▼=Test point 1.
11. All voltage values shown in circuitry are under no signal condition with volume control at maximum position. For measurement, use electronics voltmeter. The upper values should be measured during FM and the lower values during MW (Radio circuit).
12. Battery current: No signal .....125 mA
    (Record mode and monitor switch to OFF position.)
13. ⚠ indicates that only parts specified by the manufacture be used for safety.

WIRING CONNECTION DIAGRAM MODEL - RX-1450W



Q1

	FM	MW
C	0.16V	—
B	0V	—
E	0.7V	—
Ie	0.8mA	

Q2

	FM	MW
C	0.01V	—
B	2.4V	—
E	3.0V	—
Ie	0.6mA	

IC1

1	FM	—	9	FM	0V
	MW	4.5V		MW	0V
2	FM	0.7V	10	FM	—
	MW	—		MW	0.75V
3	FM	0V	11	FM	—
	MW	0V		MW	4.5V
4	FM	2.3V	12	FM	—
	MW	—		MW	4.5V
5	FM	2.8V	13	FM	—
	MW	—		MW	0.6V
6	FM	4.0V	14	FM	
	MW	—		MW	0.7V
7	FM	4.0V	15	FM	—
	MW	—		MW	4.5V
8	FM	2.8V	16	FM	
	MW			MW	0.7V

Q101

REC & PLAY	
C	0.9V
B	0.6V
E	0.04V
Ie	0.4mA

Q103
Q102

REC & PLAY	
C	4.2V

Q104

REC & PLAY	
C	1.3V
B	0.6V
E	0.02V
Ie	0.2mA

Q105

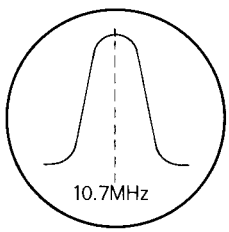
REC & PLAY	
C	4.2V
B	1.3V
E	0.7V
Ie	4.5mA

Q106.107

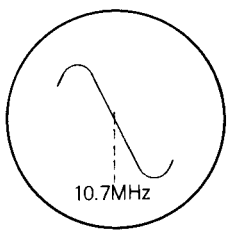
REC & PLAY	
C	6.0V
B	0.6V
E	0.01V
Ie	6.6mA

■ FM RF ALIGNMENT

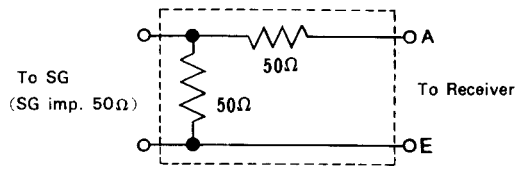
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
(3)	Connect to point ▼. through FM dummy antenna. Common to ▼. (Refer to Fig. 10.)	90 MHz (400 Hz Mod.)	90 MHz	Output meter across EXT SP jack.	L_5 (FM OSC coil) L_3 (FM Tuning coil)	Adjust for maximum output.
(4)	〃	106 MHz (400 Hz Mod.)	106 MHz	〃	CT_2 (FM OSC trimmer) CT_1 (FM Tuning trimmer)	Adjust for maximum output. Repeat steps (3) and (4).



〔Fig. 8〕

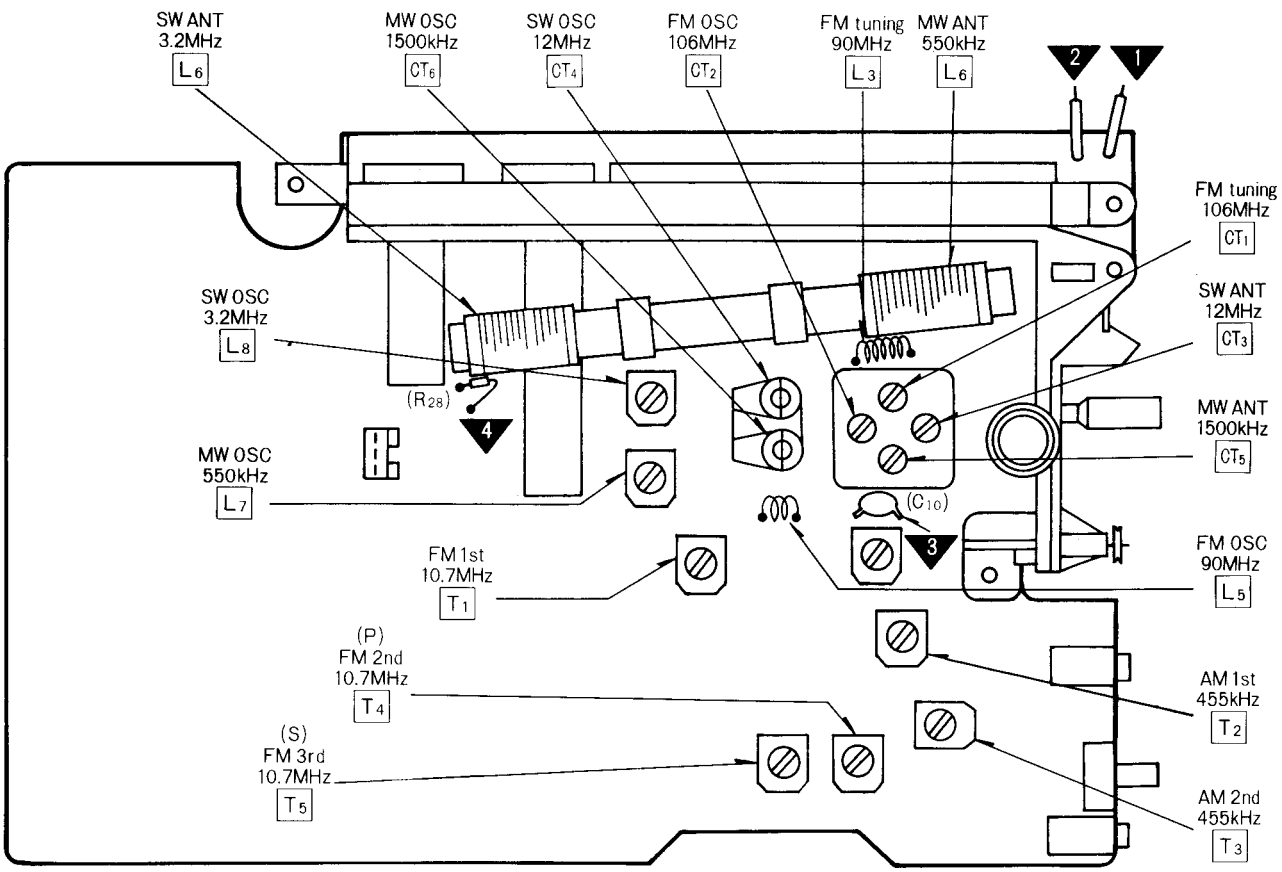


〔Fig. 9〕



〔Fig. 10〕 FM Dummy Antenna

ADJUSTMENT PARTS LOCATION



〔Fig. 11〕

CABINET PARTS

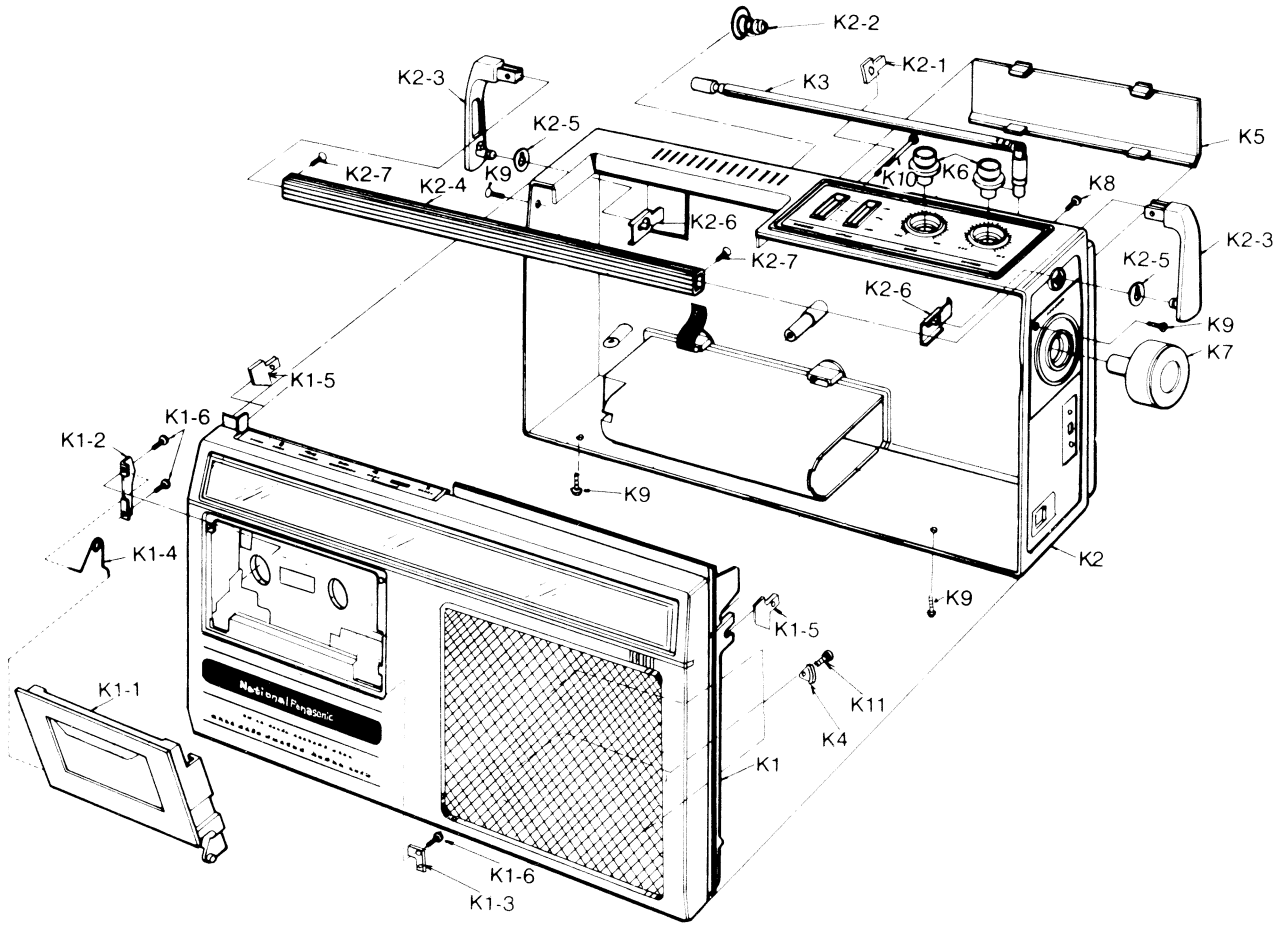


Fig.12

ELECTRICAL PARTS

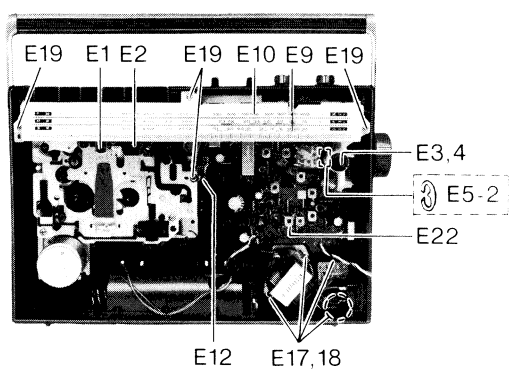


Fig. 13

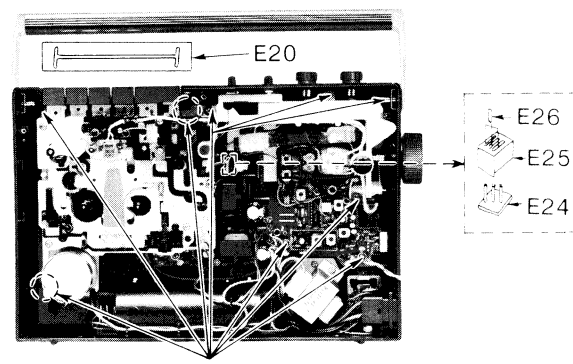


Fig. 14

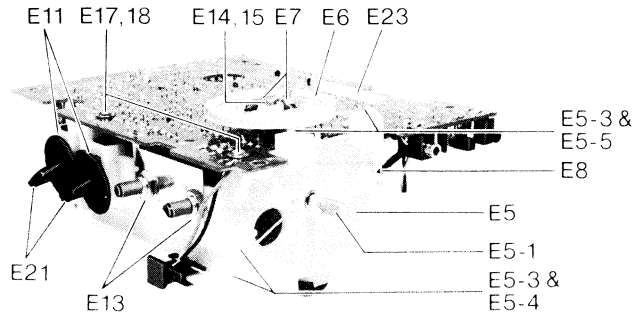
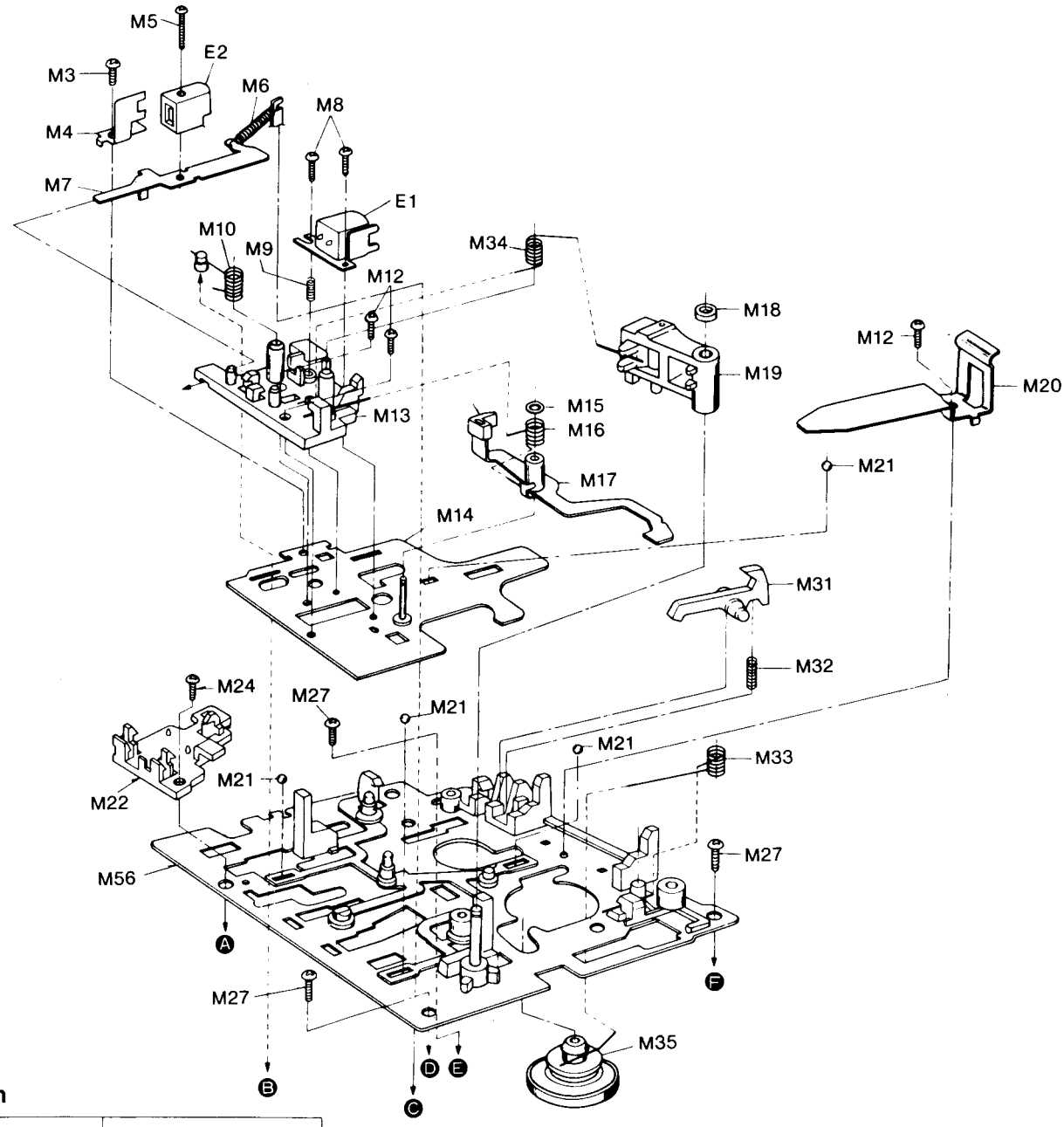


Fig. 15

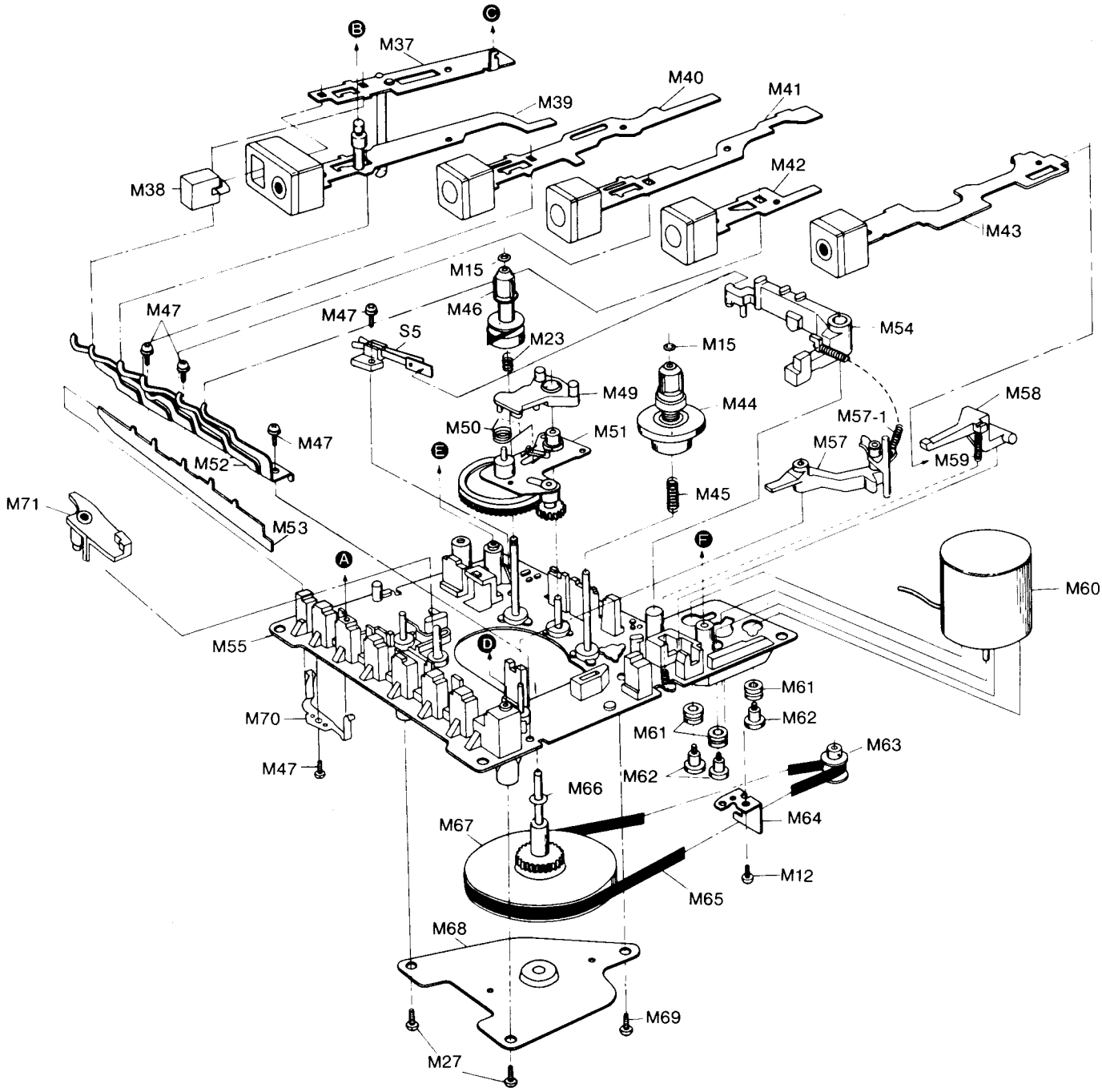
EXPLODED VIEWS



Specification

Pressure of pressure roller	400±60gr
Takeup tension	50±20gr
Tension of detect piece	65±10gr
Wow & flutter	Less than 0.4% (RMS)
Tape speed fluctuation	±3%

〔Fig. 16〕


M37
M40
M41
M39
M38
M42
M43
M15
M47
M47
M46
S5
M23
M54
M15
M49
M44
M58
M50
M51
M57-1
M47
M57
M59
M52
M45
M71
M53
M60
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M61
M70
M62
M61
M63
M47
M62
M66
M64
M67
M12
M65
M68
M69
M27

〔Fig.17〕

■REPLACEMENT PARTS LIST·····Model RX-1450W

(RD7907-1720C)

NOTES: 1. ⚠ indicates that only parts specified by the manufacturer be used for safety.
2. The S mark is service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		MECHANICAL PARTS		
M3	XSN26+3	Screw +2.6x3	1	S
M4	QMG0009	Tape Guide	1	
M5	XSN26+12	Screw +2.6x12	1	S
M6	QBT1813	Erase Head Rod Spring	1	
M7	QMR1474	Erase Head Rod	1	
M8	XSN2+8	Screw +2x8	2	S
M9	QBC1278	Head Spring	1	
M10	QBN1481	Playback Spring	1	
M12	XTN26+5B	Screw +2.6x5	2	
M13	QMZ1166	Head Spacer	1	
M14	QXK1681	Head Base Plate	1	
M15	QBW2008	Snap Washer	1	
M16	QBN1478	Auto-Stop Detector Spring	1	
M17	QXL0982	Auto-Stop Detector Lever	1	
M18	QBW2046	Snap Washer	1	
M19	QXL0979	Pressure Roller Ass'y	1	
M20	QBP1659	Head Base Pressure Plate	1	
M21	QDK1017	Steel Ball	1	
M22	QMZ1167	Counter Table	1	
M23	QBC1332	Back Tension Spring	1	
M24	XTN3+12B	Screw +3x12	1	S
M27	XTN3+10B	Screw +3x10	3	S
M31	QML2900	Erase Safety Lever	1	
M32	QBC1193	Erase Safety Lever Spring	1	
M33	QBN1479	Idler Spring	1	
M34	QBN1488	Pressure Roller Spring	1	
M35	QXI0088	Idler Lever Ass'y	1	
M37	QXR0442	Record Rod Ass'y	1	
M38	QGO1227	Record Button	1	
M39	QXR0249	Playback Rod Ass'y	1	
M40	QXR0251	Rewind Rod Ass'y	1	
M41	QXR0250	Fast Forward Rod Ass'y	1	
M42	XWR0194	Stop Rod Ass'y	1	
M43	QXR0195	Eject Rod Ass'y	1	
M44	QXD0054	Takeup Reel Table	1	
M45	QBC1279	Back Tension Spring	1	
M46	QDR1100	Supply Reel Table	1	
M47	XTN26+6B	Screw +2.6x6	6	S
M49	QML2912	Fast Forward Operation Lever	1	
M50	QBN1477	Fast Forward Arm Spring	1	
M51	QXG1023	Fast Forward Gear Arm Ass'y	1	
M52	QBP1664	Operation Rod Spring	1	
M53	QMR1473	Lock Rod	1	
M54	QML2905	Switch Arm	1	
M55	QXK1667	Lower Base Plate	1	
M56	QXK1668	Upper Base Plate	1	
M57	QXL0980	Auto-Stop Drive Lever Ass'y	1	
M57-1	QBT1489	Auto-Stop Spring	1	
M58	QML2902	Eject Arm	1	
M59	QBT1773	Eject Arm Spring	1	
M60	MHT5ST6Y	Motor	1	
M61	QBG1539	Motor Cushion	1	
M62	QHQ1223	Motor Holding Screw	3	
M63	QXP0513	Motor Pulley Ass'y	1	
M64	QMA2676	Belt Guide	1	
M65	QDB0219	Flywheel Belt	1	
M66	QBW2049	Poly Washer	1	
M67	QXF0113	Flywheel Ass'y	1	
M68	QXH0218	Flywheel Retainer	1	
M69	XTN3+15B	Screw +3x15	1	
M70	QBP1662	Lock Rod Spring	1	
M71	QML2945	Cue Lever	1	
		INTEGRATED CIRCUIT, TRANSISTORS AND DIODES		
IC1	RVIUPC1018CE	IC	1	
Q1,2	2SA838	Transistor (Ge)	2	
Q101∿105	2SC945	Transistor (Si)	5	
Q106,107	2SD471	"	2	
D1,103	RVDKB265E	Diode (Si)	2	S
D2,5,108	OA90	Diode (Ge)	3	S
D3,4	2-OA90	"	2	S
D101	MA161	Diode (Si)	1	S
D102	MA27A2	"	1	S
D104,107	SM112	"	2	S ⚠
		COILS AND TRANSFORMERS		
L3	RLD4Y44	Tuning Coil, FM	1	
L4	RLI4M103	Trap Coil, FM	1	
L5	RLO4Y53	Oscillator Coil, FM	1	
L6	RLF5W2	Antenna Coil, AM	1	
L7	QLO2M14	Oscillator Coil, MW	1	
L8	RLO3M70	Oscillator Coil, SW	1	
T1	RLI4M101	IFT, FM 1st	1	S
T2	QLI2M102	IFT, AM 1st	1	
T3	RLI2M402	IFT, AM 2nd	1	S
T4	RLI4M504	IFT, FM 2nd	1	S
T5	RLI4M506	IFT, FM 3rd	1	
T101	QLT3F5	Input Transformer	1	
T102	QLT2G14	Output Transformer	1	
T103	RLT5J227	Power Transformer	1	⚠
		VARIABLE RESISTORS		
VR1	EVH3JAF15A14	Variable Resistor, 10 KΩ (A)	1	
VR2	EVH3JAF15A54	" " , 50 KΩ (A)	1	
		VARIABLE CAPACITOR		
VC1∿4,CT1∿4	RCV4RC2VL	Tuning Capacitor	1	
CT5,6	RCV2T-16M	Trimmer Capacitor	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		CERAMIC FILTER		
CF1	RVFSFE107MSR	Ceramic Filter, 10.7 MHz	1	
CF2	QCRZZ455A7W	Ceramic Filter, 455 KHz	1	
		SPEAKER		
	EAS10P81SS	Speaker, 10cm (4"), 8 Ω	1	
		SWITCHES		
S1	QSS7203	Switch, Record/Playback	1	
S2	QST4218	" Function	1	
S3	QST8308	" Band	1	
S4	QSS1210	" Monitor	1	
S5	QSB0178	" Motor	1	
S6	Refer to J3	" AC/DC Selector	(1)	
S7	RSR4A01W	" AC Voltage Selector	1	⚠
		JACKS		
J1,2	RJJ19Z	Jack, MIC, EXT. SP	2	
J3	RJJ112Z	Jack, AC IN	1	⚠
		RESISTORS (Value is in OHMS)		
R120	ERX1ANJ1R5	1.5 1W Metal-Oxide Film	1	S
R102	ERD25TJ100	10 1/4W Carbon	1	S
R10,121	ERD25TJ220	22 " "	2	S
R8,13, 122	ERD25TJ330	33 " "	3	S
R6,7,9	ERD25TJ470	47 " "	3	S
R114	ERD25TJ680	68 " "	1	S
R119	ERD25TJ820	82 " "	1	S
R106	ERD25TJ101	100 " "	1	S
R24,116	ERD25TJ151	150 " "	2	S
R29	ERD25TJ221	220 " "	1	S
R110	ERD25TJ681	680 " "	1	S
R2	ERD25TJ331	330 " "	1	S
R17,18,111,118	ERD25TJ102	1 K " "	4	S
R5,108, 109	ERD25TJ152	1.5 K " "	3	S
R3,103	ERD25TJ222	2.2 K " "	2	S
R21	ERD25TJ332	3.3 K " "	1	S
R134	ERD25TJ392	3.9 K " "	1	S
R14,19,20,137	ERD25TJ472	4.7 K " "	4	S
R1,101,107,112,113,127	ERD25TJ682	6.8 K " "	6	S
R11,15,16,28,104,123,126,128,139	ERD25TJ103	10 K " "	9	S
R4,125	ERD25TJ223	22 K " "	2	S
R12	ERD25TJ473	47 K " "	1	S
R124	ERD25TJ683	68 K " "	1	S
R27	ERD25TJ104	100 K " "	1	S
R115,117	ERD25TJ154	150 K " "	2	S
R105	ERD25TJ334	330 K " "	1	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)		
C46	ECCD1H020C	2 P 50V Ceramic	1	
C14,42, 48	ECCD1H030C	3 P " "	3	
C7	ECCD1H040C	4 P " "	1	
C2	ECCD1H050CC	5 P " "	1	
C18	ECCD1H070DC	7 P " "	1	
C11,17	ECCD1H100KC	10 P " "	2	
C6,12	ECCD1H150KC	15 P " "	2	
C8	ECCD1H390KC	39 P " "	1	
C1,40	ECCD1H560K	56 P " "	2	
C35,49	ECCD1H101K	100 P " "	2	
C43,44	ECCD1H181K	180 P " "	2	
C112	ECCD1H331K	330 P " "	1	
C3	ECKD1H102MD	0.001 " "	1	
C105,114	ECKD1H102ZF	0.001 " "	2	
C121	ECKD1H152MD	0.0015 " "	1	
C122	ECKD1H222MD	0.0022 " "	1	
C4,10,13,23,50,51,52,118	ECKD1H103MD	0.01 " "	8	
C129,132	ECKD1H103ZF	0.01 " "	2	
C117	ECKD1H153MD	0.015 " "	1	
C16,22	ECKD1H223ZF	0.022 " "	2	
C19	ECQS05361JZ	360 P " Styrol	1	
C21	ECQS05182KZ	0.0018 " "	1	
C104	ECFVD332KA	0.0033 25V Semi-Conductor	1	
C24,25,29,31,34,37,101,102	ECFVD223MD	0.022 " "	8	
C36,107,108	ECEA50ZR1	0.1 50V Electrolytic	3	S
C106	ECEA50ZR47	0.47 " "	1	S
C103	ECEA50Z1	1 " "	1	S
C33,113	ECEA25Z4R7	4.7 25V "	2	S
C109	ECEA1HS100	10 50V "	1	S
C27	ECEA1CS330	33 16V "	1	S
C5,30, 111	ECEA1AS470	47 10V "	3	S
C26	ECEA1AS101	100 " "	1	S
C28,110,115	ECEA1AS221	220 " "	3	S
C141	ECEA1ES221	220 25V "	1	S
C120	ECEA1AS471	470 10V "	1	S
C116	ECEA1AS102	1000 " "	1	S
C119	ECEA1CS222	2200 16V "	1	S
		ELECTRICAL PARTS		
E1	QWY0128Z	Head, Record/Playback	1	
E2	QWY2127Z	Head, Erase	1	
E3	RJM144Z	Built-in Microphone	1	
E4	RHG553Z	Cover, Microphone	1	
E5	RZAX1450XKSN	Dial Chassis Ass'y	1	
E5-1	RDT9106Z	Shaft, Tuning	1	
E5-2	XUC5FT	Circlip	1	S
E5-3	RDY43Z	Shaft, Dial Roller	4	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
E5-4	RDR21-1	Roller, Large	2	
E5-5	RDR20-3	Roller, Small	2	
E6	RDD5010Z	Drum, Dial	1	
E7	RDS4090A	Spring, Dial	2	
E8	RDZ05A	Cord, Dial (100cm)	1 ROLL	
E9	RDP780Z	Pointer	1	
E10	RKD513U	Scale, Dial	1	
E11	QBH0125	Shelter, Switch	2	
E12	QJT202B	Terminal, Earth	1	
E13	XNS8	Nut	2	S
E14	XSN26+5S	Screw +2.6x5	1	S
E15	XWA26B	Washer	1	S
E16	XTW3+12FR	Screw +3x12	10	
E17	XTN3+10B	Screw +3x10	6	S
E18	XWG3	Washer	6	S
E19	XTN3+10CR	Screw +3x10	4	
E20	QBH0149	Mechanism Shelter	1	
E21	QGT1394	Knob, Lever Switch	2	
E22	RMC413Z	Shield Plate, IF	1	
E23	RMC382Z	Shield Plate	1	
E24	QJP1921TN	Post, 3P	1	
E25	QJS1921TN	Housing, 3P	1	
E26	QJT1054	Contact	1	
		CABINET PARTS		
K1	RYMX1450WXKS	Front Panel Ass'y	1	
K1-1	RYQX1450TX	Cassette Lid Ass'y	1	
K1-2	RUL612Z	Angle, Spring	1	
K1-3	RME234Z	Holder, Cassette Lid	1	
K1-4	QBN8003	Spring, Cassette Lid	1	
K1-5	QMF1692	Plate, Front Panel Holding	4	
K1-6	XTN3+10B	Screw, +3x10	3	S
K2	RYFX1450WXKS	Main Body Case Ass'y	1	
K2-1	QJB0042	Terminal, Battery +	2	
K2-2	QJB0016	Terminal, Battery -	2	
K2-3	RKX148Z	Arm, Handle	2	
K2-4	RKX149Z	Handle	1	
K2-5	QKJK1036	Retainer, Handle	2	
K2-6	QBP1817	Spring, Handle Holding	2	
K2-7	XSB3+6BNS	Screw +3x6	2	S
K3	XEAQCR228EAY	Telescopic Antenna	1	
K4	QKT1364	Metal, Speaker Holding	3	
K5	QYD1014	Battery Cover Ass'y	1	
K6	QGT1334	Knob, Volume, Tone	2	
K7	RBN483Z	Knob, Tuning	1	
K8	XYN3+F15FZS	Screw +3x15	1	
K9	XSS3+8BVS	Screw +3x8	4	S
K10	XTB3+50BFN	Screw +3x50	1	S
K11	XTN3+10B	Screw +3x10	3	S
		ACCESSORIES		
A1	RJA21Z	Power Cord, AC	1	⚠
A2	RJP120ZS	AC Plug	1	⚠
A3	RJN18Z	Cassette Tape	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
A4	RQE13Z	Voltage Caution Tag	1	
		PACKING MATERIALS		
P1	RPK809Z	Gift Box	1	
P2	RPN9301Z	Pad, Complete (Left & Right)	1	
P3	XZB45X45A04	Poly Bag		
		PRINTED MATERIALS		
Y1	RQX6478Z	Instruction Book	1	

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